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IV. *Observations made of the Latitude, Variation of the Magnetic Needle, and Weather, by*
Capt. Christopher Middleton, in a Voyage from London to Hudfon's-Bay, Anno 1735.

Month.	Day.	Hour.	Altitude of the Ther- mo- meter.	Altitude of the Baro- meter.	Latitude by Account	Longi- tude from Lon- don by Account	Va- riat. of the Com- pals.	Latitude observ'd by Smith's Quadr.	Latitude observ'd by Had- ley's Qua- drant.	Latitude observ'd by Elton's Quadr.	Latitude by ob- servant of Ward & Smith.	Winds.	Remarks.
May	31	6	27	29.9	—	—	W.	—	—	—	—	SW	Variable, with some Rain.
		12	24	29.6	60.0	19.11	23	—	—	—	—	to SE	
		9	29.7	29.7	—	—	—	—	—	—	—	SE to SW	
June	1	6	29.7	29.7	—	—	—	—	—	—	—	SW	Variable the first two Parts, moderate the latter, fresh Gales and a great Sea.
		12	25	29.5	59.50	23.33	24	—	—	—	—	to SW	
		9	25	29.5	—	—	—	—	—	—	—	SW to S by E	
	2	6	26	29.4	—	—	—	—	—	—	—	SW	Cloudy, and squally with Rain.
		12	26	29.3	59.55	25.53	25	59.54	59.59	—	—	to S by E	
		9	27	29.8	—	—	—	—	—	—	—	SW	
	3	6	28	29.9	60	28.3	26	59.57	60	—	—	SW	Frequent Showers of Rain, with Squalls.
		12	26	28.8	—	—	—	—	—	—	—	SW	
		9	27.9	30.1	—	—	—	—	—	—	—	SW	
	4	6	29	30.5	—	—	—	—	—	—	—	SW	Uncertain squally Weather, with a Western Swell.
		12	26	29.8	60.40	29.25	26	60.39	60.41	—	—	SW	
		9	27.9	30.1	—	—	—	—	—	—	—	SW	
	5	6	28	30	—	—	—	—	—	—	—	SW	Squally, with some Rain.
		12	26	29.8	60.31	32.12	27	—	—	—	—	SW to NNW	
		9	25	29.7	—	—	—	—	—	—	—	NNW	
	6	6	28	29.7	—	—	—	—	—	—	—	SW to NNW	Variable, with Squalls of Rain.
		12	25	29.5	58.44	35.46	27	58.47	58.50	—	—	NNW	
		9	24	29.5	—	—	—	—	—	—	—	NNW to WNW	
	7	6	28	29.5	—	—	—	—	—	—	—	NNW to WNW	Variable fresh Gales, with Rain and Squalls.
		12	28	29.9	58.11	36.58	28	58.8	58.11	—	—	NNW to WNW	
		9	30	29.8	—	—	—	—	—	—	—	NNW to W by S	
	8	6	30	29.9	—	—	—	—	—	—	—	NNW to W by S	Moderate and fair Weather, with Clouds.
		12	28	29.8	57.50	38.33	28	57.53	57.57	—	—	NNW to W by S	
		9	26	29.6	—	—	—	—	—	—	—	NNW to W by S	

June

Month.	Day.	Hour.	Altitude of the Ther- mome- ter.	Altitude of the Baro- meter.	Latitude by Account	Longitude from <i>London</i> by Account	Va- riat. of the Com- pass.	Latitude observ'd by <i>Smith's</i> Quadrant.	Latitude observ'd by <i>Hud- son's</i> Qua- drant.	Latitude observ'd by <i>El- ton's</i> Qua- drant.	Latitude by Sextant of <i>Ward & Smith</i> .	Winds.	Remarks.
June	20	6	28	30.1	—	—	—	—	—	—	—	W N W	Moderate Weather, most part Foggy.
	12	29	30	30.8	61.40	64.8	39	—	—	61.46	—	Wt S W b S	Much Ice all round; fore Part Foggy, latter clear.
	21	6	29	29.8	—	—	—	—	—	—	—	Wt	The most part foggy and hazy Weather.
22	12	27	32	29.4	61.11	65.40	40	—	—	61.12	61.12	N b W	Fair, with much shatter'd Ice, and large Isles.
	9	28	29.9	29.9	—	—	—	—	—	—	—	S° S W	Early Breezes, fair and clear, heavy Ice all round.
	12	27	30	29.8	61.30	66.50	40	—	—	61.30	—	W N W	Hazy middle Part, clear the latter.
23	9	26	29.6	29.6	61.37	67.19	41	61.36	—	61.38	—	Ditto	Fair pleasant Weather; much Ice.
	12	27	28.5	29.9	—	—	42	—	—	—	—	SW b W	Little Winds, and fair pleasant Weather.
	9	28	29.8	29.8	61.53	68.12	—	—	—	—	—	—	Most Part foggy, with Calms.
24	6	28	29.7	29.7	61.41	68.42	41	—	—	—	—	—	Several large Isles of Ice; foggy.
	12	27	29.8	29.8	—	—	—	—	—	—	—	NNE W S W	
	9	30	39.9	39.9	—	—	—	—	—	—	—	—	
25	6	29	29.7	29.7	61.30	68.42	41	—	—	—	—	—	
	12	29	29.6	29.6	—	—	—	—	—	—	—	—	
	9	31	29.8	29.8	61.33	69.2	40	—	—	—	—	—	
26	6	29	29.6	29.6	—	—	—	—	—	—	—	—	
	12	29	29.75	29.75	—	—	—	—	—	—	—	—	
	9	28	29.5	29.5	61.30	69.13	40	61.30	—	61.30	61.20	ESE	
27	6	27	29.6	29.6	—	—	—	—	—	—	—	—	
	12	27	29.5	29.5	—	—	—	—	—	—	—	—	
	9	25	29.75	29.75	—	—	—	—	—	—	—	—	
28	6	25	29.75	29.75	—	—	—	—	—	—	—	—	
	12	25	29.75	29.75	—	—	—	—	—	—	—	—	
	9	25	29.75	29.75	—	—	—	—	—	—	—	—	
29	6	25	29.75	29.75	—	—	—	—	—	—	—	—	
	12	25	29.75	29.75	—	—	—	—	—	—	—	—	
	9	25	29.75	29.75	—	—	—	—	—	—	—	—	

June

June 30	6 26	29.9	29.5	61.33	69.26	40	ESE to WSW	Little Winds and calm; heavy Ice all round.
	12 26.5	29.9	19.9	—	—	—	—	—
	9 27	29.9	29.9	—	—	—	—	—
July 1	6 29	29.7	29.6	61.28	70.10	41	ESE	Fast in thick Ice, with Fogs and Rain.
	12 27.5	29.7	29.6	—	—	—	—	—
	9 27.5	29.6	—	—	—	—	—	—
	6 32	29.1	—	—	—	—	—	—
2	12 31	29	—	61.28	70.37	41	SE to NE	These 24 Hours the first and lat- ter Parts fresh Gales, middle a Storm of Wind and Rain.
	9 26.5	29.3	—	—	—	—	—	—
	6 29.5	29.5	—	—	—	—	—	—
3	12 28	29.8	—	61.28	70.22	41	NW	Hard Gales, with much Snow.
	9 27.5	29.9	—	—	—	—	—	—
	6 32	29.9	—	—	—	—	—	—
4	12 29.5	29.6	—	61.28	70.26	40	NW	Moderate and fair Weather, with much Ice.
	9 25.5	29.3	—	—	—	—	—	—
	6 29	29.8	—	—	—	—	—	—
5	12 27	29.9	—	61.33	70.36	40	NbW	Working to Windward in Ice, sometimes in a Clear.
	9 29	29.7	—	—	—	—	—	—
	6 31	29.9	—	—	—	—	—	—
6	12 27.5	29.7	—	61.46	70.54	40	WSW to NEbN	Most Part fair and pleasant Weather, with much Ice.
	9 26	29.7	—	—	—	—	—	—
	6 27	29.4	—	—	—	—	—	—
7	12 27	29.6	—	61.55	71.13	40	NE to NWbN	Foggy Weather, close Ice all round.
	9 27	29.9	—	—	—	—	—	—
	6 29	29.7	—	—	—	—	—	—
8	12 26	29.75	—	61.46	70.21	40	Ditto.	Moderate, with Fogs.
	9 25.5	29.9	—	—	—	—	—	—
	6 29	29.9	—	—	—	—	—	—
9	12 27	30	—	61.42	71.40	41	Ditto.	The first Part hazy, the latter clear.
	9 27	30	—	—	—	—	—	—
	6 32.5	29.7	—	—	—	—	—	—
10	12 29.5	29.6	—	62.18	75.13	41	NW to SE	Clear Sea, fresh Gales and hazy.
	9 26	29.75	—	—	—	—	—	—

Month.	Day.	Hour.	Altitude of the Ther- mome- ter.	Altitude of the Baro- meter.	Latitude by Account	Longitude from Account	Va- riat. of the Com- pass.	Latitude observed by Smith's Quadrant.	Latitude observed by Had- ley's Quadrant.	Latitude observed by El- son's Quadrant.	Winds.	Remarks.
July	11	6 31	29.7	29.7	62.31	76	42	—	—	—	S b W	Foggy Weather.
		12 27	29.9	29.9	—	—	—	—	—	—	—	—
		9 28	29.75	29.75	—	—	—	—	—	—	—	—
—	12	6 31.5	29.9	29.9	63.5	75.28	—	—	—	—	Ditto.	—
		12 31.5	29.9	29.9	—	—	—	—	—	—	—	—
		9 28	30	30	—	—	—	—	—	—	—	—
—	13	6 30	30.2	30.2	63.15	75	—	—	—	63.20	S to N W	Working in loofe Ice; hazy, sometimes clear.
		12 29	30.3	30.3	—	—	—	—	—	—	—	—
		9 27.5	29.9	29.9	—	—	—	—	—	—	—	—
—	14	6 31	30	30	63.25	74.38	—	—	—	—	N W to West	Much Ice, fair and clear, with Calms.
		12 27	30	30	—	—	—	—	—	—	—	—
		9 25	30	30	—	—	—	—	—	—	—	—
—	15	6 30	29.9	29.9	63.20	76	—	—	—	—	SSE to ESE	Much Ice, fresh Gales and hazy.
		12 27	29.8	29.8	—	—	—	—	—	—	—	—
		9 27	29.8	29.8	—	—	—	—	—	—	—	—
—	16	6 27	29.8	29.8	63.10	77.20	—	—	—	—	SE	Loofe Ice, large Clears in Sight of <i>Salisbury</i> .
		12 26	29.7	29.7	—	—	—	—	—	—	—	—
		9 26.5	29.7	29.7	—	—	—	—	—	—	—	—
—	17	6 27.5	29.7	29.7	63.10	78.20	44	—	—	—	ESE	Foggy, much Ice and fresh Gales.
		12 27.5	29.6	29.6	—	—	—	—	—	—	—	—
		9 26	29.7	29.7	—	—	—	—	—	—	—	—
—	18	6 29	29.6	29.6	63	78	43	—	—	—	Calm.	Loofe Ice East End of <i>Noting- ham</i> , N b E seven Leagues.
		12 26	29.8	29.8	—	—	—	—	—	—	—	—
		9 26	29.8	29.8	—	—	—	—	—	—	—	—
—	19	6 25	29.9	29.9	63.10	78.20	43	—	—	—	ESE	Much Ice, clear Weather. <i>Cape Walsingham</i> S W b W five or six Leagues.
		12 24	29.85	29.85	—	—	—	—	—	—	—	—
		9 27	29.80	29.80	—	—	—	—	—	—	—	—
—	20	6 28	29.85	29.85	63.20	78.30	41	—	—	—	SW	Shatter'd Ice, foggy West; I- sland <i>Diggs</i> , W S W five Leagues.
		12 27.5	29.84	29.84	—	—	—	—	—	—	—	—
		9 27	29.9	29.9	—	—	—	—	—	—	—	—

July

July 21	6 27.5	5 29.98	63.10	79.50	42	S S E	Cape Diggs S E S b S 6 Leagues. Fresh Gales, and Ice.
	12 25.5	29.9	63.10	79.50	42	S b W	
	9 24	29.8				SW b W to South.	Much large Ice; the North End of Mansfield S W b W four Miles.
22	6 27	29.9	63	80.13	42	S W	North End of Mansfield S W fourteen Miles.
	12 25	29.9				E b S to SSE	Hazy; some Pieces of Ice.
	9 23	30.1				SSW	Much Ice, and Rain.
23	6 26.5	30.1	63.4	81.10	44	S b E	Thick foggy Weather, with Showers of Rain.
	12 26	30.				N W to West.	Steering Ice, with wet Fog.
	9 25	30				N b W	Baker's Dozens S b W four Leagues. Fair Weather.
24	6 29.5	29.9	61.34	82.52	40	W b S	Moderate, with Fogs, Rain and Ice.
	12 29	29.85				NW b W	Fresh Gales. A great Sea from the Southward.
	9 26	29.85				N E	Thunder and Rain. North- Bear S W by W five Miles.
25	6 31	29.82	61.15	83.56	38		
	12 28	29.82					
	9 26	29.83					
26	6 32	29.7	60.45	84.23			
	12 29	29.7					
	9 29.5	29.9					
27	6 30.5	29.9	59.39	84.11	30		
	12 26	29.9					
	9 26	30.1					
28	6 28	30.1	58.9	82.44	28		
	12 26	30.1					
	9 26	30.1					
29	6 28	30	56.46	82.45	26		
	12 26	30					
	9 25	29.95					
30	6 27.5	29.85	55.51	82.39	25		
	12 25.5	29.9					
	9 23	30					
31	6 26	29.9	54.44	82.47	24		
	12 25.5	29.5					
	9 24	30					

Month.	Day.	Hour.	Altitude of the Ther- mome- ter.	Altitude of the Baro- meter.	Latitude by Account	Longi- tude from Lon- don by Account	Va- riat. of the Com- pass.	Latitude observ'd by Smith's Quadrant.	Latitude observ'd by Had- ley's Qua- drant.	Latitude observ'd by El- dred's Qua- drant.	Winds.	Remarks.
August	1	6	26	30	53. 3	81.20	22	—	—	—	N E	Moderate and fair Weather.
		12	25. 5	29.98	—	—	—	—	—	—	South to North.	The first Part moderate, the latter hard Gales, with Thunder and Lightning in with the W. Main.
		6	24	29. 8	52.20	82	—	—	—	—	—	Arrived in <i>Moole-River</i> Road.
	2	12	23. 5	29. 9	—	83	—	—	—	—	—	—
		9	24	29. 9	—	—	—	—	—	—	—	—
		6	26	30	51.40	—	—	—	—	—	—	—
Sept.	1	12	27	29.85	55.36	West. 00.42	22	—	—	—	West and W b N	Moderate and fair.
		9	29	29.85	—	from Bear. 26	—	—	—	—	N W to North.	Moderate Gales and Hazy, with small Rain.
		2	12	27	30. 5	1.16	—	—	—	—	N b W to N b E	Ditto.
	3	9	26	30. 8	—	—	—	—	—	—	South to East.	The first Part moderate, middle and latter very hard Gales, with Squalls of Rain.
		9	30	29. 8	56. 6	1.16	26	—	—	—	—	Ditto, hard Gales and Squalls.
		12	26	30. 4	—	—	—	—	—	—	—	—
	4	9	23	31. 5	—	—	—	—	—	—	—	—
		9	30	29. 8	58. 6	2.58	30	—	—	—	N E b E	Fresh Gales and squally, with a Head-Sea.
		12	26	30. 6	—	—	—	—	—	—	—	—
	5	9	23	31	—	—	—	—	—	—	—	—
		9	33	29. 8	58.28	4.26	30	—	—	—	—	—
		12	33	29.85	—	—	—	—	—	—	—	—
Sept.	6	9	33	30. 1	—	3.23	31	58.42	58.49	—	—	—
		12	32. 5	30. 2	58.40	—	—	—	—	—	—	—
		9	32	30. 2	—	—	—	—	—	—	—	—

Sept.

Sept. 7	9 27	29. 9	60.45	1.15	31					NW	Ditto, Gales and Snow.
	9 26	30. 1		East.						SW to NW	Strong Gales and squally; great Sea from the North-West.
8	9 37. 5	30. 3	61.37	0. 4	32					NW to NE	Moderate and fair; four Leagues from the South End of <i>Mansfields</i> 76 Fathom, Mud.
	9 32	30. 1		East.						NbE	Little Winds and fair Weather. In Sight of <i>Mansfields</i> .
9	9 34	30. 3	61.55	0. 4	33					SW	Fair and pleasant Weather. In Sight of <i>Mansfields</i> , 4 Miles.
	9 32	30. 5		West.						SW	At Noon <i>Mansfields</i> NWbW 5 Leagues; Sleet and foggy. Cape <i>Walsingham</i> SW 6 Leagues.
10	9 32	30. 5	61.58	1. 0	34					SW	Frequent Showers of Hail and Snow.
	9 30	30. 5		East.						SW	Moderate and fair Weather.
11	9 36	30.25	62.30	2.21	43					SW	Much Snow, with thick Weather.
	9 30	30. 1	62.52	2.28	42					SW	Pa's'd several large Isles of Ice; fresh Gales and Sleet; thick Weather with Snow.
12	9 30	30. 1		East.						SW	First 2 Parts hard Gales and Snow, latter moderate. At Noon Cape <i>Reolut.</i> NE 6 L. S. Pt. NWbN 4 L.
	9 32	30. 3		East.						SW	
13	9 32	30. 3	63. 9	3.40	43					SW	
	9 32	30. 2		East.						SW	
14	9 31. 5	30. 1	62.50	6.44	42					SW	
	9 30. 5	29. 5	62.22	7.55	42					SW	
15	9 30	29.46								SW	
	9 29	29. 5								SW	
16	9 29	29. 8	61.43	12	42					SW	
	9 28	30. 3								SW	
17	9 32. 5	30. 4								SW	
	9 33	30. 5	61.43	15.10	40					SW	
17	9 31	30.55								SW	

N n 2

Sept.

Month.	Day.	Hour.	Altitude of the Ther- mome- ter.	Altitude of the Baro- meter.	Latitude by Account	Longi- tude from Lon- don by Account	Va- riat- ion of the Com- pass.	Latitude observ'd by Smith's Quadrant.	Latitude observ'd by Had- ley's Qua- drant.	Latitude observ'd by El- zen's Qua- drant.	Latitude by Sex- tant of Ward & Smith.	Winds.	Remarks.
Sept.	18	9	31	30.4	60.40	58.40	40	—	—	—	—	NEbN	Many large Isles of Ice; hard Gales; great Sea from the North-East.
		12	34	30.3	—	—	—	—	—	—	—	North to SW	Moderate, but dark and cloudy, with Sleet and Rain.
	19	9	31	30.4	59.49	53.45	38	—	—	—	—	NW	Fresh Gales, with Rain and Snow.
		12	26	29.5	—	—	—	—	—	—	—	—	—
		9	26	29.5	—	—	—	—	—	—	—	—	—
	20	9	30	29.7	58.42	48.52	32	58.37	58.38	—	—	NNW to North.	Variable, with fresh Gales and Rain.
		12	29	29.65	—	—	—	—	—	—	—	North to ESE	Fresh Gales and Squalls; vari- able Winds and cloudy.
	21	9	31	29.5	57.28	44.31	29	—	—	—	—	NEbE to NbW	Hard Gales, with Rain and Fogs.
		12	30	29.6	56.49	41.39	27	—	—	—	—	NNW	Fresh Gales, and Rain.
		9	27	29.6	—	—	—	—	—	—	—	—	—
	22	9	27	29.6	55.52	36.50	25	55.44	55.47	—	—	NWbN to SWbW	Hard Gales, with Squalls and small Rain.
		12	26.5	29.5	—	—	—	—	—	—	—	SW to SWbS	First Part hard Gales, middle and latter moderate and hazy.
	23	9	26	29.7	55.3	31.21	24	55.1	55.4	—	—	—	Fresh Gales, and much Rain; hazy Weather.
		12	27	29.8	53.43	25.59	23	—	—	—	—	—	—
	24	9	26	29.8	52.38	22.23	22	—	—	—	—	—	—
		12	26	30.2	—	—	—	—	—	—	—	—	—
	25	9	27.5	30	52.27	20.15	21	—	—	—	—	—	—
		12	26	30.2	—	—	—	—	—	—	—	—	—
	26	9	21	30.2	—	—	—	—	—	—	—	—	—
		12	19	30.2	—	—	—	—	—	—	—	—	—
	27	9	20	30.1	—	—	—	—	—	—	—	—	—
		12	20.5	31	—	—	—	—	—	—	—	—	—
		9	21	30	—	—	—	—	—	—	—	—	—
		12	20.5	31	—	—	—	—	—	—	—	—	—
		9	24	30.1	—	—	—	—	—	—	—	—	—

Sept.

Fresh Gales, and much Rain ;
hazy Weather.

Fresh Gales and hazy, with
some Rain the first two Parts,
the latter moderate.

Moderate and fair ; Winds va-
riable.

Moderate, with a great Head-
Sea from the Eastward.

Cloudy, with a great Sea from
the Eastward.

Hard Storm of Wind, with a
great Sea.

Moderate Gales, with small
Rain.

Ditto, fair and moderate.

Saw several Ships, founded 100
Fathom. Moderate.

Two first Parts hard Gales and
heavy Squalls, the latter mo-
derate.

Sept. 28	9	25	30.2	30.25	50.30	16.33	20	51	51	NE
—	12	25	30.2	30.2	—	—	—	—	—	NE
—	9	24	30.2	30.2	—	—	—	—	—	to
29	9	23	30.3	30.3	—	—	—	—	—	NbW
—	12	23	30.2	30.2	50.20	13.7	19	50.24	50.25	NW
—	9	24	30.2	30.2	—	—	—	—	—	to
30	9	23	30.2	30.2	—	—	—	—	—	S by E
—	12	21.5	30.3	30.3	50.37	11.41	18	50.30	50.35	SSE
—	9	20	30.2	30.2	—	—	—	—	—	SSE
Octob. 1	9	22.5	30.3	30.3	—	—	—	—	—	SSE
—	12	22	30.2	30.2	50.35	11.22	18	—	—	SSE
—	9	22	30.3	30.3	—	—	—	—	—	to
2	9	22	30.2	30.2	—	—	—	—	—	SSE
—	12	23	30.2	30.2	49.40	12.32	18	—	—	SSE
—	9	22	30.2	30.2	—	—	—	—	—	to
—	9	22	29	29	—	—	—	—	—	SSE
3	9	22.5	30.1	30.1	—	—	—	—	—	SSE
—	12	22.5	30.1	30.1	50.7	11.39	18	—	—	SSE
—	9	22.5	30.1	30.1	—	—	—	—	—	to
4	9	20	29.9	29.9	—	—	—	—	—	SSE
—	12	20	30.1	30.1	50.3	10.36	17	50.4	—	SSE
—	9	20	30.25	30.25	—	—	—	—	—	to
5	9	20.5	30.35	30.35	—	—	—	—	—	SSE
—	12	20.5	30.3	30.3	49.38	8.52	16	49.42	—	to
—	9	20.5	30.4	30.4	—	—	—	—	—	West.
6	9	22	30.2	30.2	—	—	—	—	—	South
—	12	22	30.1	30.1	50	7.20	15	50.5	—	Calm
—	9	22	29.9	29.9	—	—	—	—	—	SSE
7	9	22	29.9	29.9	—	—	—	—	—	SSE
—	12	21	30	30	49.39	6.58	15	49.38	—	WNW
—	9	21	29.9	29.9	—	—	—	—	—	WNW

An Explanation of the TABLES.

The first Column contains the Month ; the second Column is the Day of the Month ; the third the Hour of the Day, beginning at Six in the Morning, to Twelve at Noon, and Nine at Night ; the fourth Column is that of the Thermoscope ; the fifth Column is the Height of the Mercury in the Baroscope, the first Number is the Inches of its Height, the second and third Number marks the tenths and hundredth Parts of an Inch ; the sixth Column is the Latitude the Ship is in, by Account, every Day at Noon ; the seventh Column is the Longitude the Ship is in every Day at Noon, by Account, from the Meridian of *London* (except where otherwise express'd). The Column Variation, is the Variation of the Needle ; and the next four Columns are the Latitudes observ'd at Noon by four several new Instruments ; the first is Mr. *Smith's* Prismatic Quadrant, the second is Mr. *Hadley's*, the third by Mr. *John Elton*, and the fourth by Mr. *Caleb Smith* and Mr. *William Ward* ; the next Column is the Wind for the most Part of the Twenty-four Hours.

The Thermoscope which I made use of in the Voyage, was made by Mr. *John Patrick*, together with the Baroscope ; in his Thermoscope he places [°] at the Top, supposing it to be the Heat under the Line, and so the Figures increase downwards, with the Increase of Cold. Temperate is placed at 25.

This Prismatic Quadrant of Mr. *Caleb Smith* I find to be of very great Use at Sea, in particular for the Stars, as I have experienced several times in my Voyage to *Hudson's Bay*, in the worst of Weather, when you can but see the Horizon ; and his other is of great Use, in tolerable smooth Water, in foggy and hazy Weather, when there is no Horizon to be seen, yet have the Benefit of the Sun.